ATLANTIC ANALYTICAL SERVICES LIMITED
ANALYSTS & CHEMICAL CONSULTANTS
275 CITY ROAD, SAINT JOHN, NEW BRUNSWICK
E2L 3N3
TELEPHONE (506) 642-1117

April 4th, 1984

CONTRACT REPORT NO. 0SQ83-00181
REQ. NO. 3-9164-7

DEPT. OF ENERGY MINES & RESOURCES
CANMET, MINERAL SCIENCES LABORATORIES
555 BOOTH ST.
OTTAWA, ONTARIO
K1A-0G1

ATT: DR. H. F. STEGER

CONTRACT # 03SQ-23440-3-9164-7

Following are the selenium results to complete the work for contract # 03SQ-23440-3-9164-7.

REFERENCE		Se ppm (WT/WT)
1)	CZN-1	8
2)	CZN-1	9
3)	CZN-1	9
4)	CZN-1	10
5)	CZN-1	8
1)	CPB-1	26
2)	CPB-1	23
3)	CPB-1	24
4)	CPB-1	25
5)	CPB-1	32
1)	CCU-1	72
2)	CCU-1	86
3)	CCU-1	72
4)	CCU-1	65
5)	CCU-1	64

W. J. Wilson
President

MICROMEDIA

8pp

WJW/hdc

PREPARATION & DETERMINATIONS

1) For Cu, Pb, Zn, Ag, Bi, Mn.

A one gram sample was digested with hydrochloric and nitric acids, and determined by atomic absorption spectophotometry.

2). For Fe

A one gram sample was digested with nitric, perchloric and hydrofluoric acids. Brought to dryness and redissolved in hydrochloric acid. Determination was done by atomic absorption.

3) For S

A one gram sample was digested in bromine and nitric acid. Determination was done gravimetrically after precipitation with barium chloride.

4) For Sn, W

Samples were determined by X-Ray florescense.

5) For As

One gram sample was digested with nitric, perchloric and sulphuric acid. The arsenic was then evolved as arsene gas and trapped in silver diethyldithiocarbamate and determined colourimetrically.

6) For Se

A one gram sample is dissolved in hydrochloric, nitric and perchloric acids. Determination is done colourimetrically.

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SAMPLES (S) FROM DEPT. OF ENERGY MINES AND RESOURCES

REPORT NUMBER:
CONTRACT NUMBER
03SQ-23440-3-9164

MP-1A BOTTLE NUMBER 737

	SAMPLE NUMBER	% W					
1	MP-1A	0.060					
2	MP-1A	0.058					
3	MP-1A	0.058					
4	MP-1A	0.062					
5	MP-1A	0.062					
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20							

DATE March 27th, 1984

SIGNATURE

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CUSTOMER

ATLANTIC ANALYTICAL SERVICES LIMITED
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SAMPLES (S) FROM DEPT. OF ENERGY MINES AND RESOURCES

REPORT NUMBER:

CONTRACT NUMBER
03SQ--23440-3-9164

MP-2 BOTTLE NUMBER 693

	SAMPLE NUMBER	% Sn
1	MP-2	0.047
2	MP-2	0.048
3	MP-2	0.047
4	MP-2	0.048
5	MP-2	0.048
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SAMPLES (S) FROM DEPT. OF ENERGY MINES AND RESOURCES REPORT NUMBER:

CONTRACT NUMBER
03SQ-23440-3-9164

CCU-1 BOTTLE NUMBER 479

	SAMPLE NUMBER	% S	% Fe	PPM As		
1	CCU-1	35.64	29.35	35		
2	CCU-1	35.67	29.38	32		
3	CCU-1	35.51	29.14	39		
4	CCU-1	35.49	29.11	34		
5	CCU-1	35.70	29.46	36		
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SAMPLES (S) FROM DEPT. OF ENERGY MINES AND RESOURCES REPORT NUMBER:

CPB 1 BOTTLE NUMBER 337 CONTRACT NUMBER 03SQ-.23440-3-9164

	SAMPLE NUMBER	ppm Mn	ppm Sn
1	CPB-1	322	270
2	CPB-1	314	277
3	CPB-1	315	265
4	CPB-1	313	269
5	CPB-1	311	270
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SAMPLES (S) FROM DEPT OF ENERGY MINES AND RESOURCES

REPORT NUMBER:

CONTRACT NUMBER
03SQ-23440-3-9164

CZN-1

	SAMPLE NUMBER	PPM Bi	PPM Sn
1	CZN-1	95	38
2	CZN-1	88	42
3	CZN-1	94	40
4	CZN-1	96	35
5	CZN-1	91	36
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March 27th, 1984

Dept. of Energy Mines and Resources
CANMET, Mineral Sciences Laboratories
555 Booth Street
Ottawa, Ontario
K1A 0G1

ATT: DR. H. F. STEGER

Please find enclosed the results for reference KC-1A and for the reference material contained under contract number 03SQ-23440-3-9164.

The results for selenium will follow in two days.

Also enclosed is the invoices for both projects including selenium, and a brief description of the techniques employed.

Yours truly,

W. J. Wilson
President

WJW/hdc